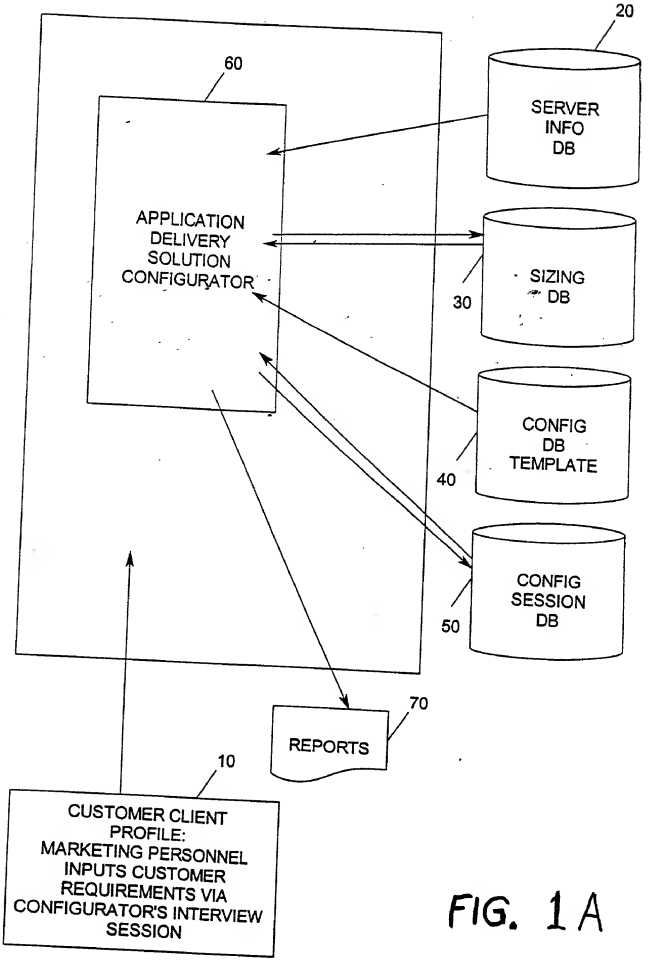


FIG. 1A

DKT 509-L

FIG. 1B
DOCKET 509-L

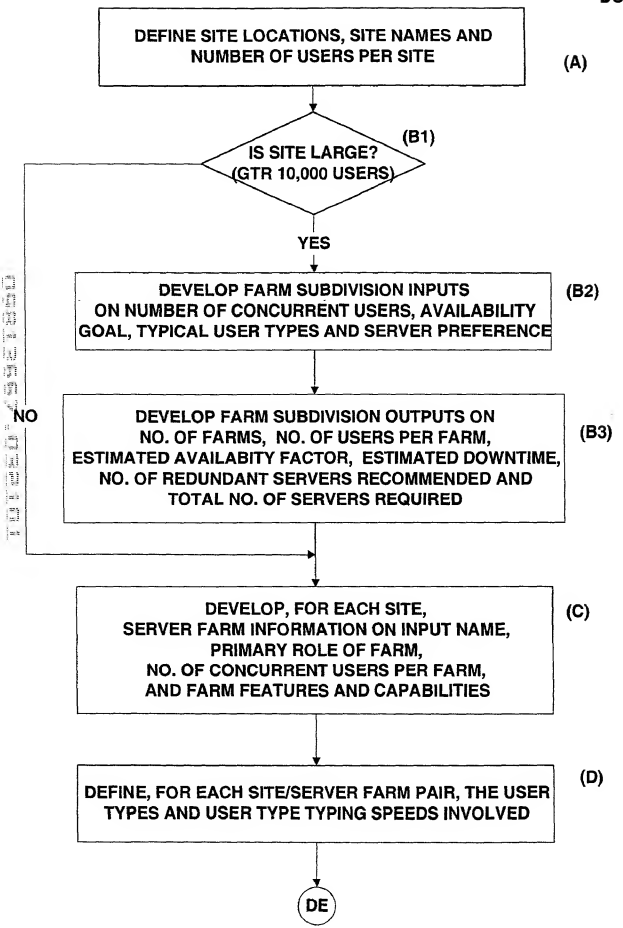
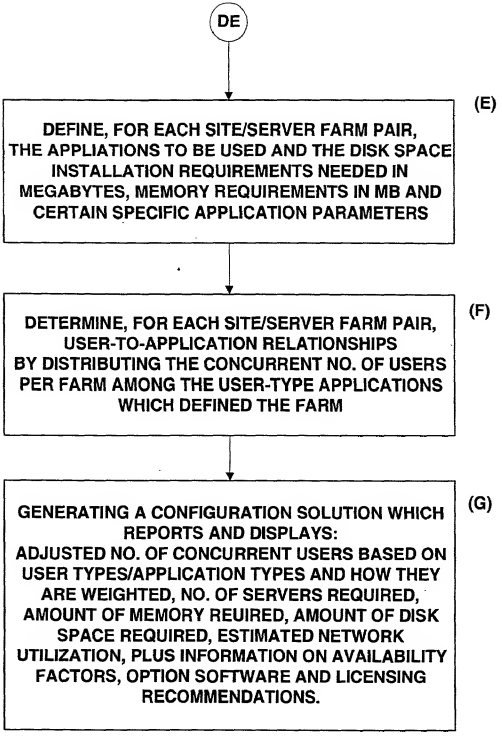


FIG. 1C
DOCKET 509-L



Interactive Search Report

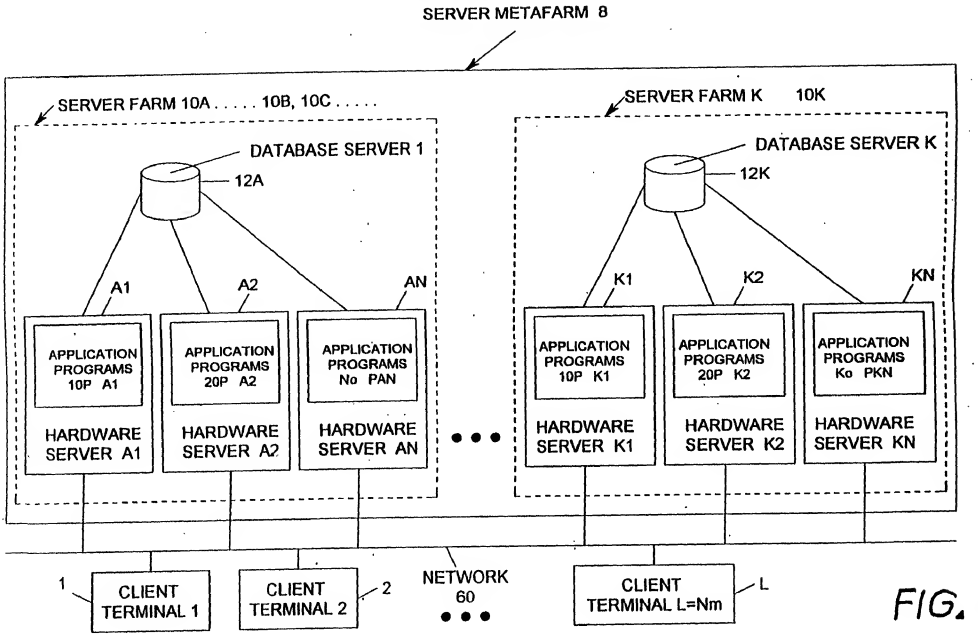


FIG. 2

PKT 509-L

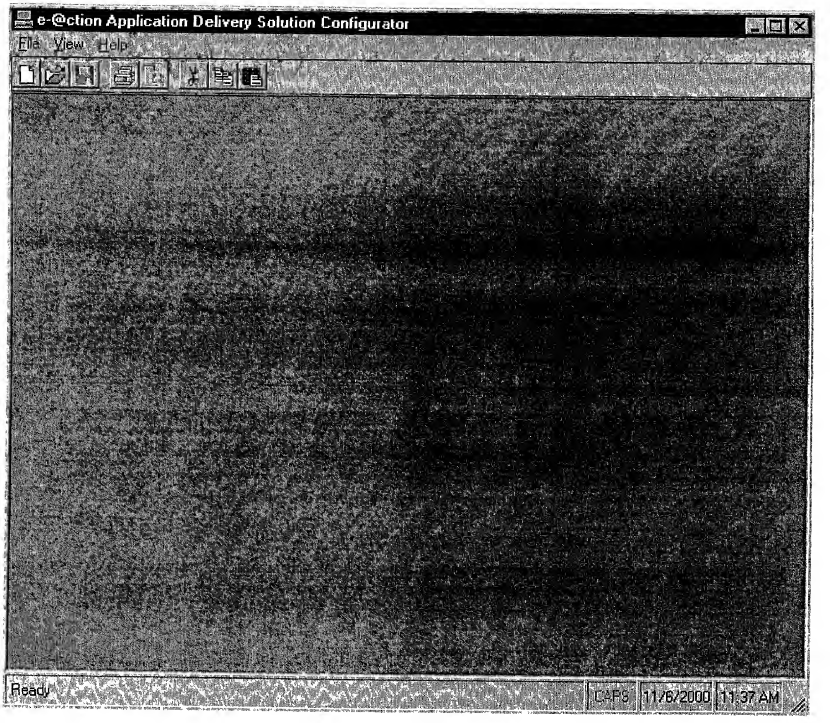

e-@ction Application Delivery Solution Configurator
File View Help
Ready
CAPS
11/6/2000
11:37 AM

FIGURE 3

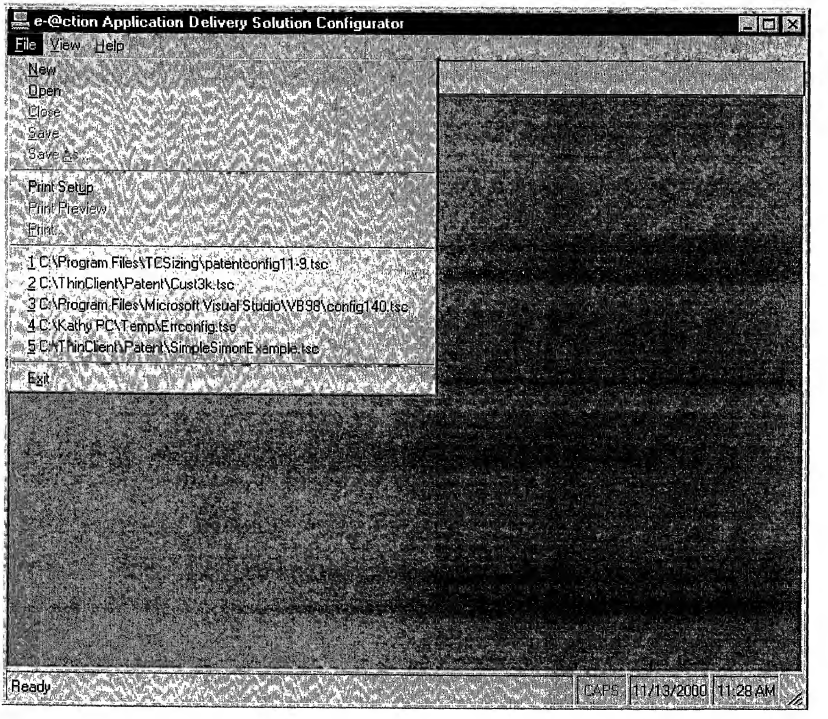

e-@ction Application Delivery Solution Configurator
File View Help
New
Open
Close
Save
Save As
Print Setup
Print Preview
Print
1 C:\Program Files\TCSizing\patentconfig11-9.tsc
2 C:\ThinClient\Patent\Cust3k.tsc
3 C:\Program Files\Microsoft Visual Studio\VB98\config140.tsc
4 C:\Kathy PC\Temp\Errconfig.tsc
5 C:\ThinClient\Patent\SimpleSimonExample.tsc
Exit
Ready
CAPS
11/13/2000
11:28 AM

FIGURE 3A

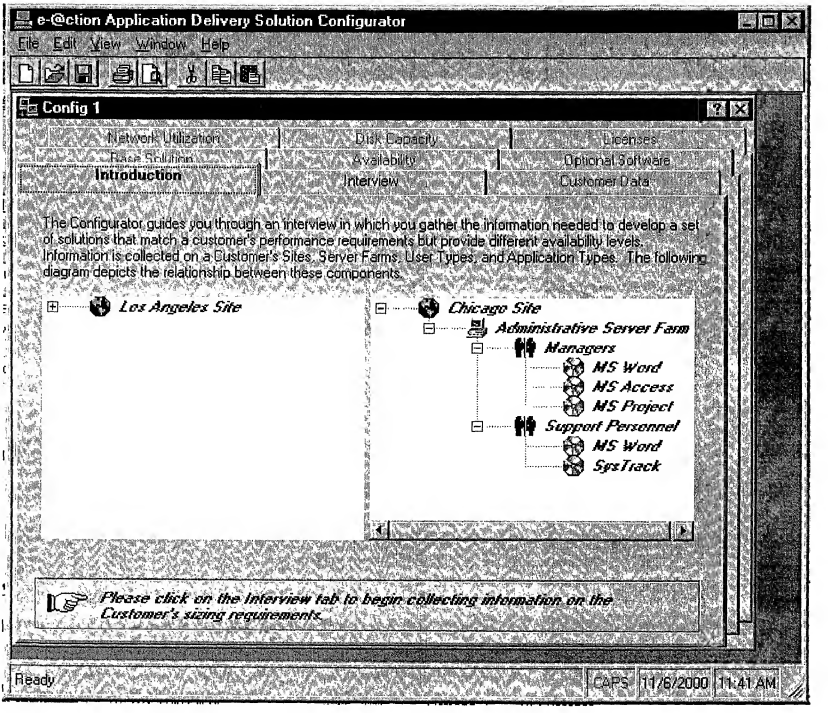

e-@ction Application Delivery Solution Configurator
File Edit View Window Help
Config 1
Network Utilization
Disk Capacity
Licenses
Base Solution
Availability
Optional Software
Introduction
Interview
Customer Data
The Configurator guides you through an interview in which you gather the information needed to develop a set of solutions that match a customer's performance requirements but provide different availability levels. Information is collected on a Customer's Sites, Server Farms, User Types, and Application Types. The following diagram depicts the relationship between these components.
Los Angeles Site
Chicago Site
Administrative Server Farm
Managers
MS Word
MS Access
MS Project
Support Personnel
MS Word
SysTrack
Please click on the Interview tab to begin collecting information on the Customer's sizing requirements.
Ready
CAPS
11/6/2000
11:41 AM

FIGURE 4

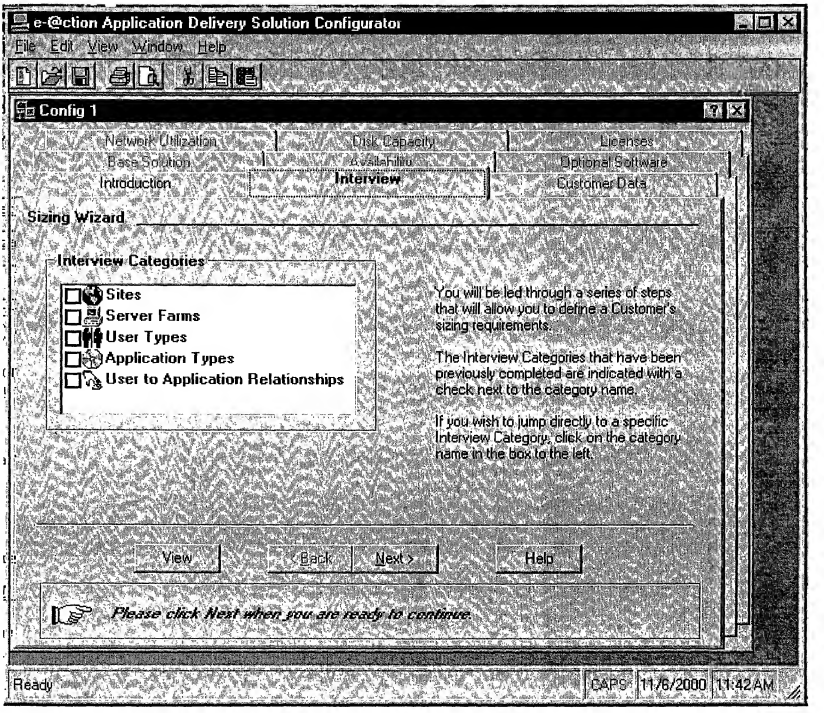

e-@ction Application Delivery Solution Configurator
File Edit View Window Help
Config 1
Network Utilization
Disk Capacity
Licenses
Base Solution
Availability
Optional Software
Introduction
Interview
Customer Data
Sizing Wizard
Interview Categories
Sites
Server Farms
User Types
Application Types
User to Application Relationships
You will be led through a series of steps that will allow you to define a Customer's sizing requirements.
The Interview Categories that have been previously completed are indicated with a check next to the category name.
If you wish to jump directly to a specific Interview Category, click on the category name in the box to the left.
View
< Back
Next >
Help
Please click Next when you are ready to continue.
Ready
CAPS
11/6/2000
11:42 AM

FIGURE 5

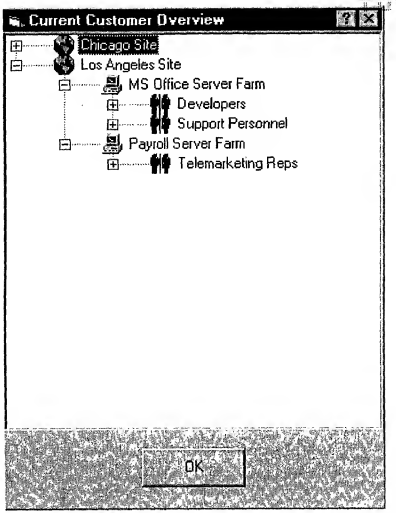

Current Customer Overview
Chicago Site
Los Angeles Site
MS Office Server Farm
Developers
Support Personnel
Payroll Server Farm
Telemarketing Reps
OK

FIGURE 6

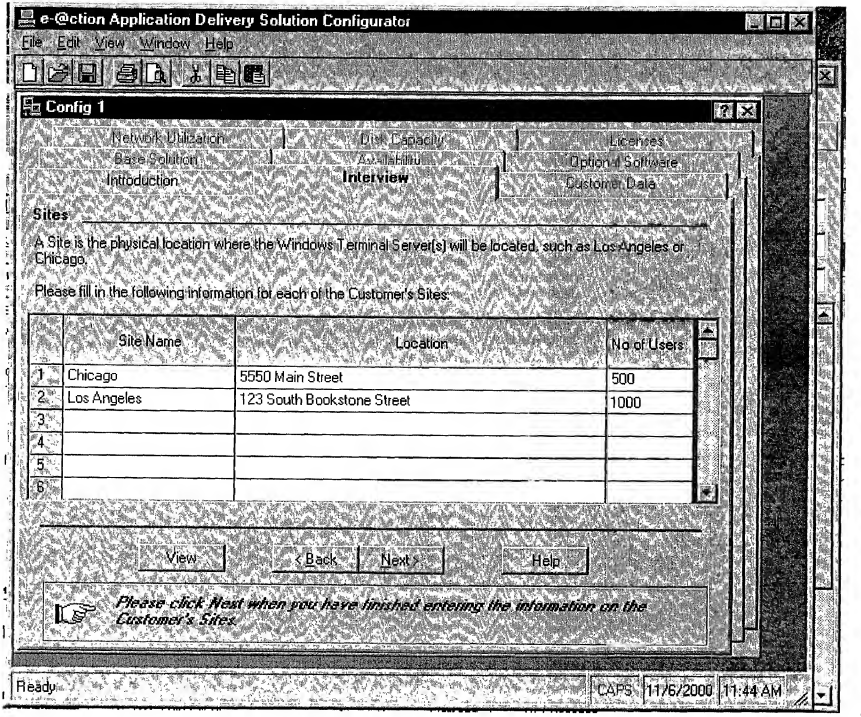

e-@ction Application Delivery Solution Configurator
File Edit View Window Help
Config 1
Network Utilization
Disk Capacity
Licenses
Base Solution
Availability
Optional Software
Introduction
Interview
Customer Data
Sites
A Site is the physical location where the Windows Terminal Server(s) will be located, such as Los Angeles or Chicago.
Please fill in the following information for each of the Customer's Sites:
Site Name
Location
No of Users
1 Chicago 5550 Main Street 500
2 Los Angeles 123 South Bookstone Street 1000
3
4
5
6
View
< Back
Next >
Help
Please click Next when you have finished entering the information on the Customer's Sites.
Ready
CAPS
11/6/2000
11:44 AM

FIGURE 7

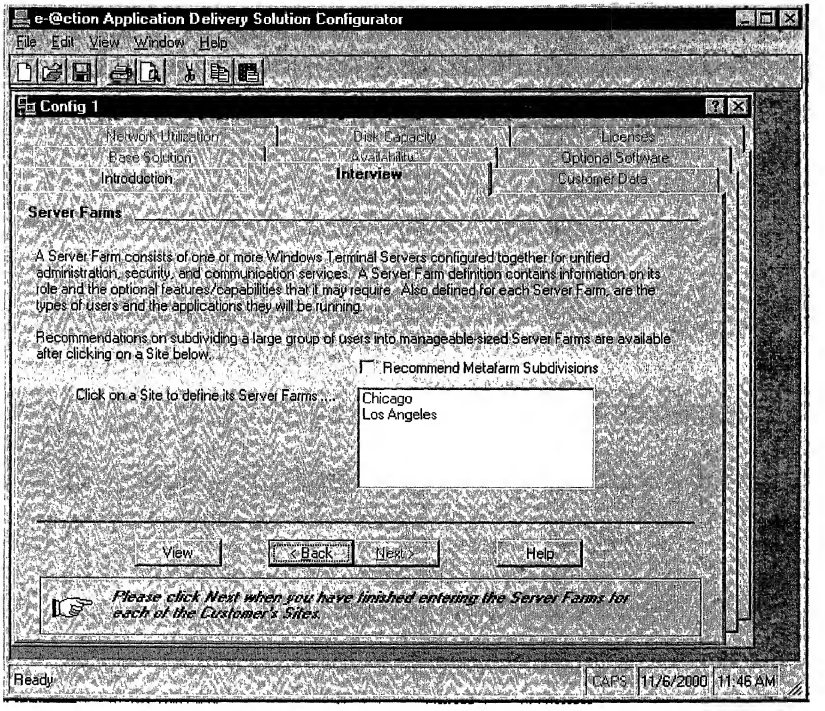

e-@ction Application Delivery Solution Configurator
File Edit View Window Help
Config 1
Network Utilization
Disk Capacity
Licenses
Base Solution
Availability
Optional Software
Introduction
Interview
Customer Data
Server Farms
A Server Farm consists of one or more Windows Terminal Servers configured together for unified administration, security, and communication services. A Server Farm definition contains information on its role and the optional features/capabilities that it may require. Also defined for each Server Farm, are the types of users and the applications they will be running.
Recommendations on subdividing a large group of users into manageable sized Server Farms are available after clicking on a Site below.
Recommend Metafarm Subdivisions
Click on a Site to define its Server Farms ...
Chicago
Los Angeles
View
< Back
Next >
Help
Please click Next when you have finished entering the Server Farms for each of the Customer's Sites.
Ready
CAPS
11/6/2000
11:46 AM

FIGURE 8

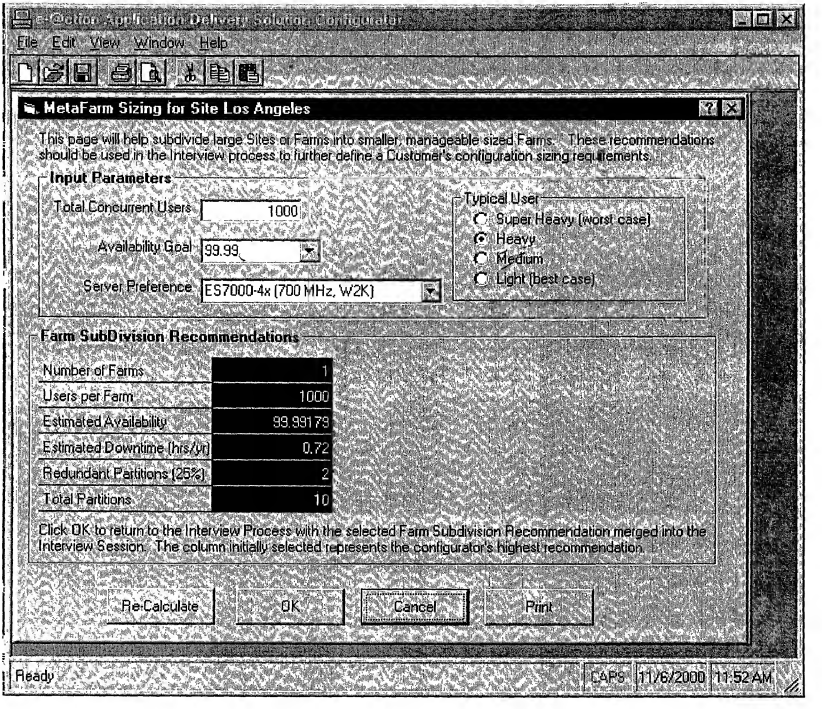

Application Delivery Solution Configurator
File Edit View Window Help
MetaFarm Sizing for Site Los Angeles
This page will help subdivide large Sites or Farms into smaller, manageable sized Farms. These recommendations should be used in the Interview process to further define a Customer's configuration sizing requirements.
Input Parameters
Total Concurrent Users 1000
Availability Goal 99.99
Server Preference ES7000-4x (700 MHz, W2K)
Typical User
Super Heavy (worst case)
Heavy
Medium
Light (best case)
Farm SubDivision Recommendations
Number of Farms 1
Users per Farm 1000
Estimated Availability 99.99173
Estimated Downtime (hrs./yr) 0.72
Redundant Partitions (25%) 2
Total Partitions 10
Click OK to return to the Interview Process with the selected Farm Subdivision Recommendation merged into the Interview Session. The column initially selected represents the configurator's highest recommendation.
Re-Calculate
OK
Cancel
Print
Ready
CAPS 11/6/2000 11:52 AM

FIGURE 9

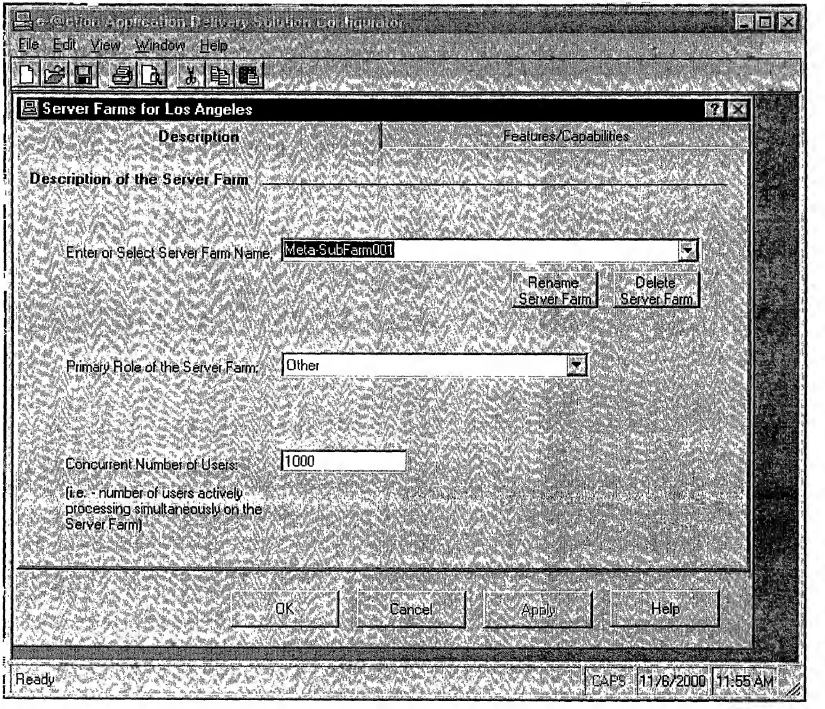

File Edit View Window Help
Server Farms for Los Angeles
Description
Features/Capabilities
Description of the Server Farm
Enter or Select Server Farm Name:
Meta-SubFarm001
Rename Server Farm
Delete Server Farm
Primary Role of the Server Farm:
Other
Concurrent Number of Users:
1000
(i.e. - number of users actively processing simultaneously on the Server Farm)
OK
Cancel
Apply
Help
Ready
CAPS
11/6/2000
11:55 AM

FIGURE 10A

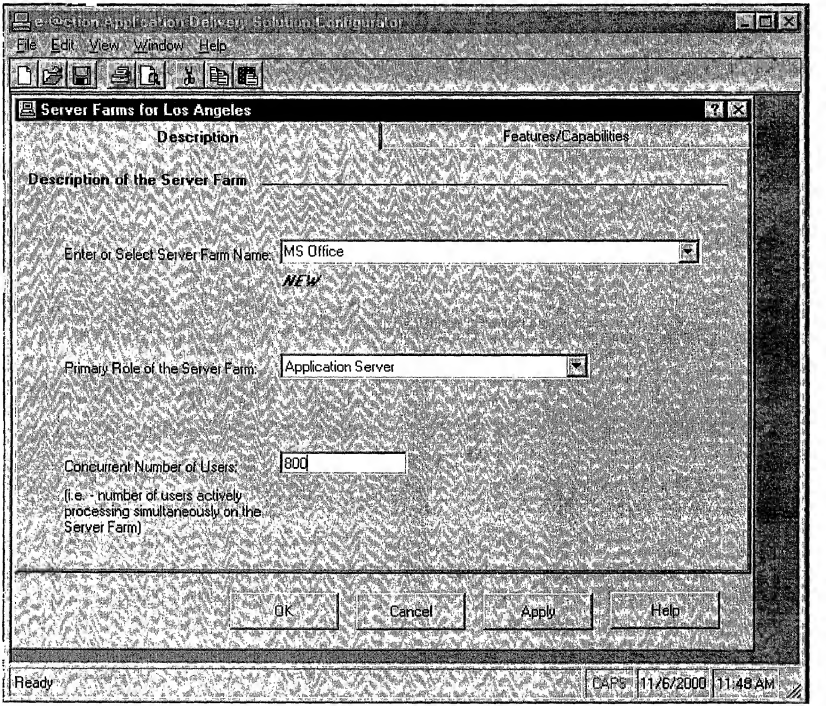

e@ction Application Delivery Solution Configurator
File Edit View Window Help
Server Farms for Los Angeles
Description
Features/Capabilities
Description of the Server Farm
Enter or Select Server Farm Name:
MS Office
NEW
Primary Role of the Server Farm:
Application Server
Concurrent Number of Users:
800
(i.e. - number of users actively processing simultaneously on the Server Farm)
OK
Cancel
Apply
Help
Ready
CAPS
11/6/2000
11:48 AM

FIGURE 10B

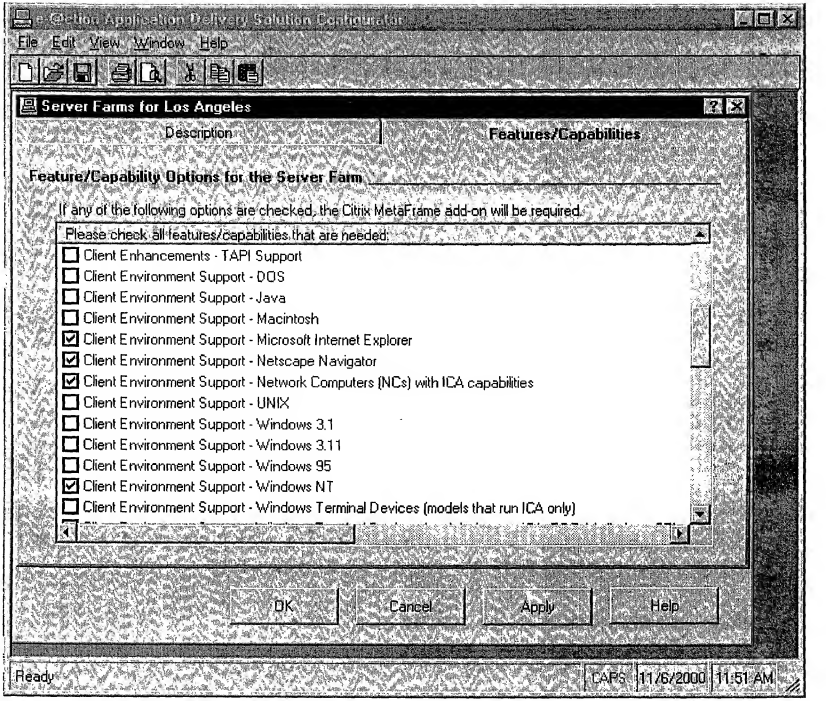

e@ction Application Delivery Solution Configurator
File Edit View Window Help
Server Farms for Los Angeles
Description
Features/Capabilities
Feature/Capability Options for the Server Farm
If any of the following options are checked, the Citrix MetaFrame add-on will be required.
Please check all features/capabilities that are needed:
Client Enhancements - TAPI Support
Client Environment Support - DOS
Client Environment Support - Java
Client Environment Support - Macintosh
Client Environment Support - Microsoft Internet Explorer
Client Environment Support - Netscape Navigator
Client Environment Support - Network Computers (NCs) with ICA capabilities
Client Environment Support - UNIX
Client Environment Support - Windows 3.1
Client Environment Support - Windows 3.11
Client Environment Support - Windows 95
Client Environment Support - Windows NT
Client Environment Support - Windows Terminal Devices (models that run ICA only)
OK
Cancel
Apply
Help
Ready
CAPS
11/6/2000
11:51 AM

FIGURE 11

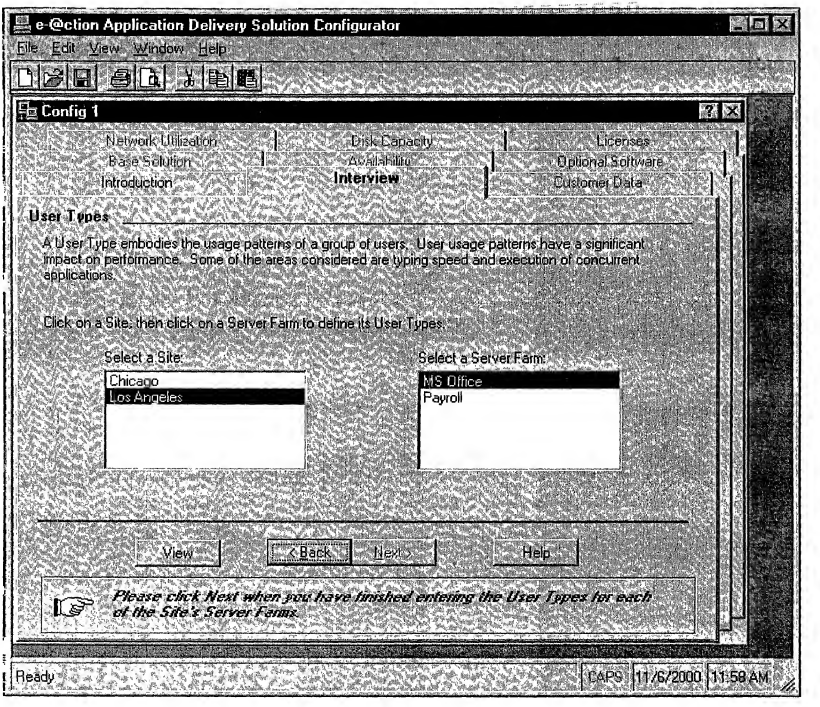

e-@ction Application Delivery Solution Configurator
File Edit View Window Help
Config 1
Network Utilization
Disk Capacity
Licenses
Base Solution
Availability
Optional Software
Introduction
Interview
Customer Data
User Types
A User Type embodies the usage patterns of a group of users. User usage patterns have a significant impact on performance. Some of the areas considered are typing speed and execution of concurrent applications.
Click on a Site, then click on a Server Farm to define its User Types.
Select a Site:
Chicago
Los Angeles
Select a Server Farm:
MS Office
Payroll
View
< Back
Next >
Help
Please click Next when you have finished entering the User Types for each of the Site's Server Farms.
Ready
CAPS
11/6/2000
11:58 AM

FIGURE 12

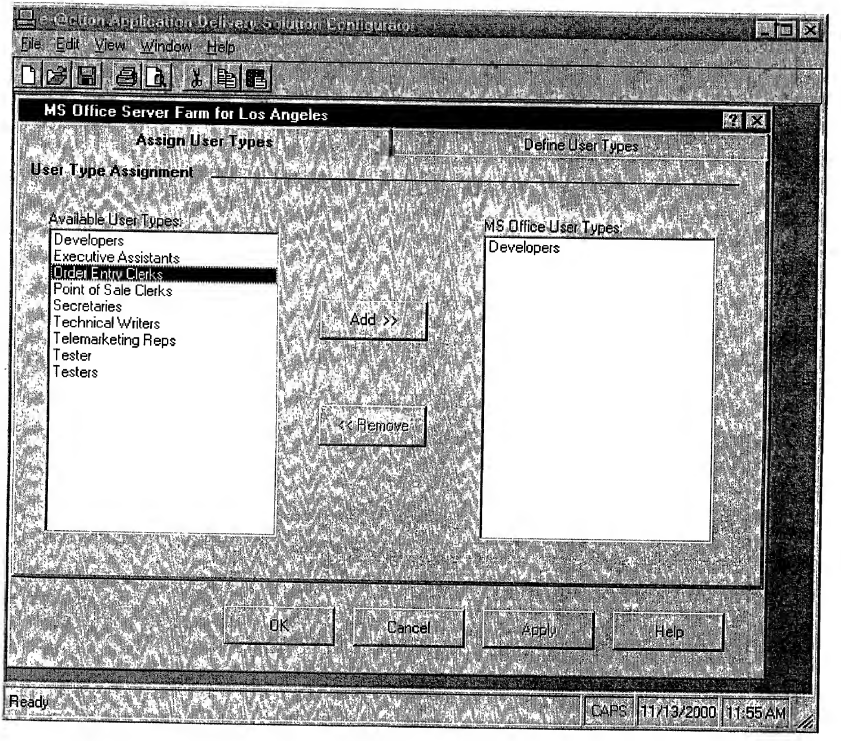

e-Action Application Delivery Solution Configurator
File Edit View Window Help
MS Office Server Farm for Los Angeles
Assign User Types
Define User Types
User Type Assignment
Available User Types:
Developers
Executive Assistants
Order Entry Clerks
Point of Sale Clerks
Secretaries
Technical Writers
Telemarketing Reps
Tester
Testers
Add >>
<< Remove
MS Office User Types:
Developers
OK
Cancel
Apply
Help
Ready
CAPS
11/13/2000
11:55 AM

FIGURE 13

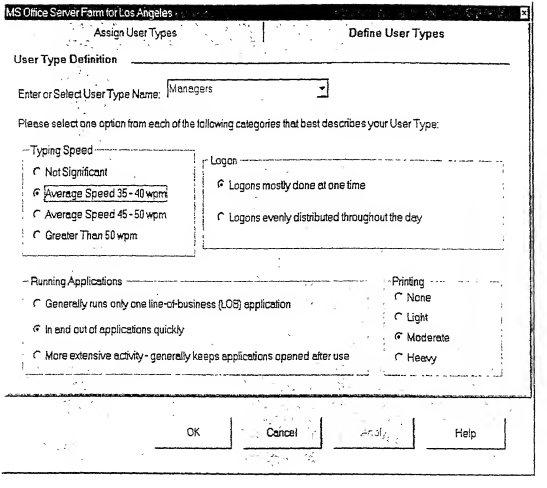

MS Office Server Farm for Los Angeles
Assign User Types
Define User Types
User Type Definition
Enter or Select User Type Name:
Managers
Please select one option from each of the following categories that best describes your User Type:
Typing Speed
Not Significant
Average Speed 35 - 40 wpm
Average Speed 45 - 50 wpm
Greater Than 50 wpm
Logon
Logons mostly done at one time
Logons evenly distributed throughout the day
Running Applications
Generally runs only one line-of-business (LOB) application
In and out of applications quickly
More extensive activity - generally keeps applications opened after use
Printing
None
Light
Moderate
Heavy
OK
Cancel
Help

FIG. 14

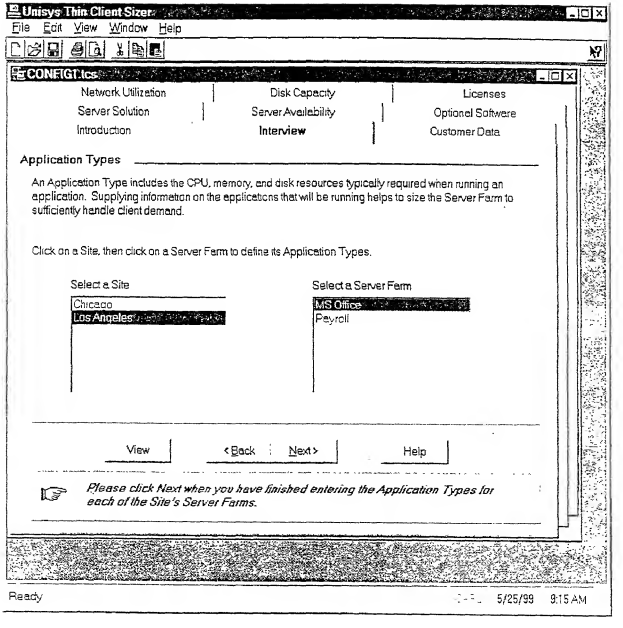

Unisys Thin Client Sizer
File Edit View Window Help
CONFIGT.tcs
Network Utilization
Disk Capacity
Licenses
Server Solution
Server Availability
Optional Software
Introduction
Interview
Customer Data
Application Types
An Application Type includes the CPU, memory, and disk resources typically required when running an application. Supplying information on the applications that will be running helps to size the Server Farm to sufficiently handle client demand.
Click on a Site, then click on a Server Farm to define its Application Types.
Select a Site
Chicago
Los Angeles
Select a Server Farm
MS Office
Payroll
View
< Back
Next >
Help
Please click Next when you have finished entering the Application Types for each of the Site's Server Farms.
Ready
5/25/99
9:15 AM

FIG. 15

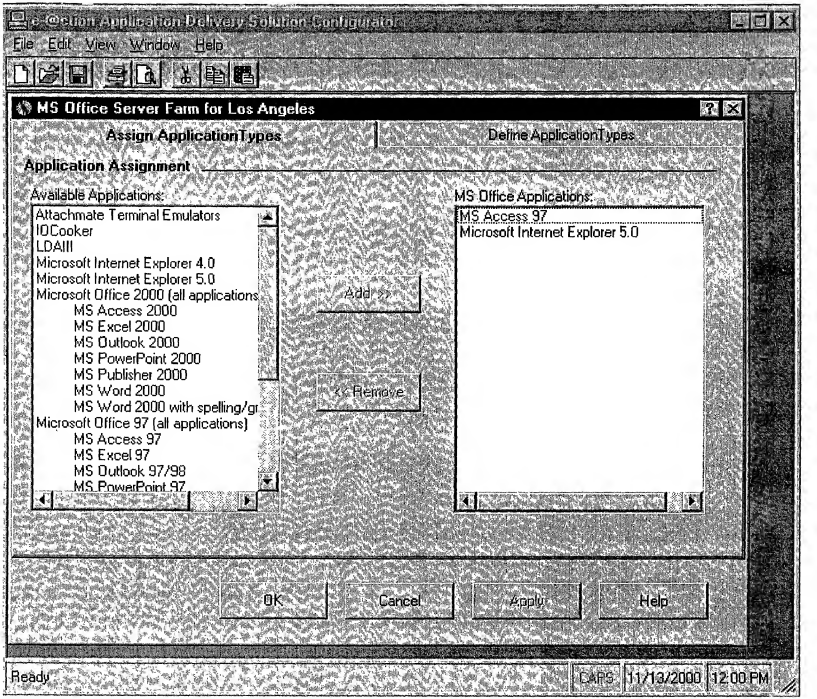

e@ction Application Delivery Solution Configuration
File Edit View Window Help
MS Office Server Farm for Los Angeles
Assign ApplicationTypes
Define ApplicationTypes
Application Assignment
Available Applications:
Attachmate Terminal Emulators
IOCooker
LDAIII
Microsoft Internet Explorer 4.0
Microsoft Internet Explorer 5.0
Microsoft Office 2000 (all applications)
MS Access 2000
MS Excel 2000
MS Outlook 2000
MS PowerPoint 2000
MS Publisher 2000
MS Word 2000
MS Word 2000 with spelling/gr
Microsoft Office 97 (all applications)
MS Access 97
MS Excel 97
MS Outlook 97/98
MS PowerPoint 97
Add >>
<< Remove
MS Office Applications:
MS Access 97
Microsoft Internet Explorer 5.0
OK
Cancel
Apply
Help
Ready
CAPS
11/13/2000
12:00 PM

FIGURE 16

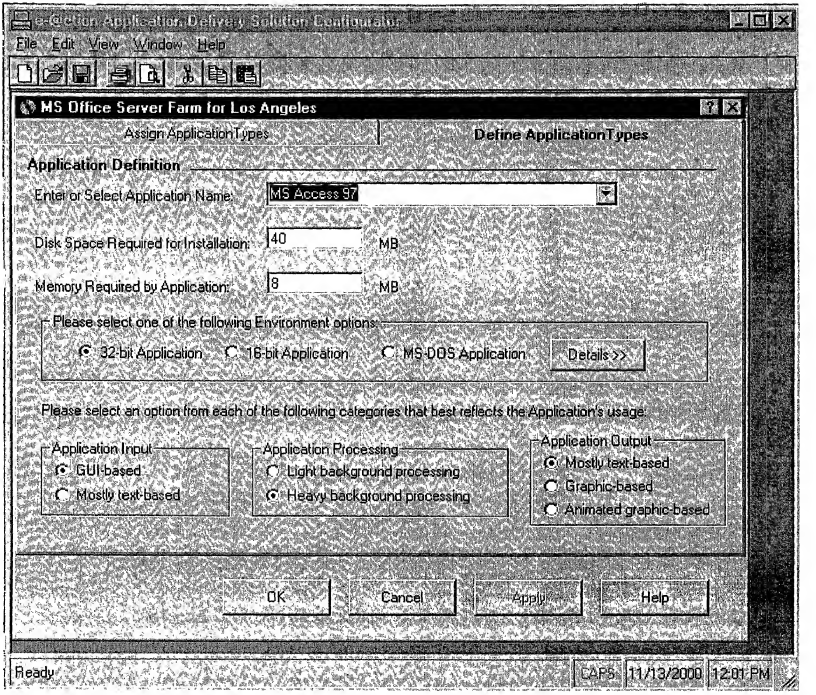

e-Diction Application Delivery Solution Configuration
File Edit View Window Help
MS Office Server Farm for Los Angeles
Assign ApplicationTypes
Define ApplicationTypes
Application Definition
Enter or Select Application Name:
MS Access 97
Disk Space Required for Installation:
40
MB
Memory Required by Application:
8
MB
Please select one of the following Environment options:
32-bit Application
16-bit Application
MS-DOS Application
Details >>
Please select an option from each of the following categories that best reflects the Application's usage:
Application Input
GUI-based
Mostly text-based
Application Processing
Light background processing
Heavy background processing
Application Output
Mostly text-based
Graphic-based
Animated graphic-based
OK
Cancel
Apply
Help
Ready
CAPS
11/13/2000
12:01 PM

FIGURE 17

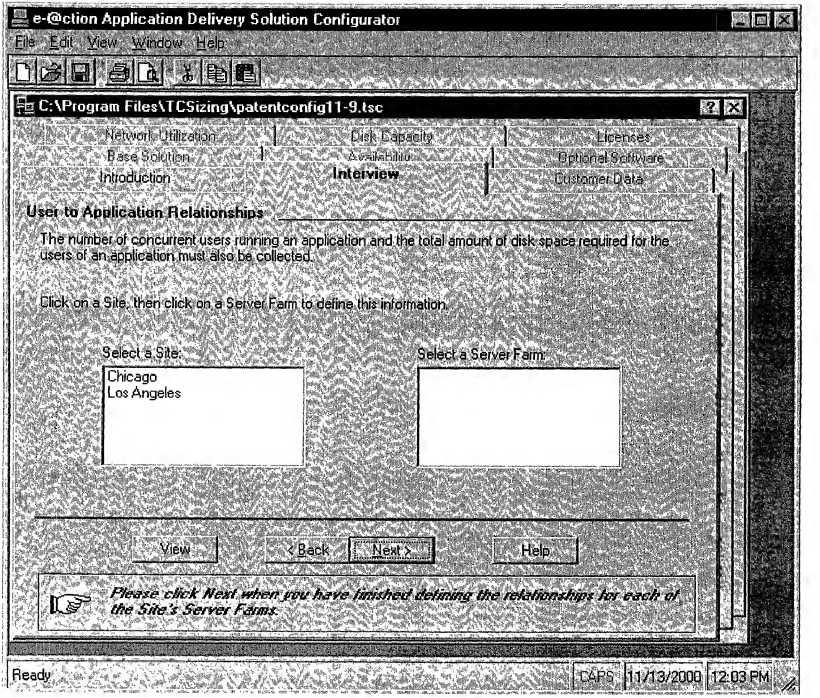

e-@ction Application Delivery Solution Configurator
File Edit View Window Help
C:\Program Files\TCSizing\patentconfig11-9.tsc
Network Utilization
Disk Capacity
Licenses
Base Solution
Availability
Optional Software
Introduction
Interview
Customer Data
User to Application Relationships
The number of concurrent users running an application and the total amount of disk space required for the users of an application must also be collected.
Click on a Site, then click on a Server Farm to define this information.
Select a Site:
Chicago
Los Angeles
Select a Server Farm:
View
< Back
Next >
Help
Please click Next when you have finished defining the relationships for each of the Site's Server Farms.
Ready
CAPS
11/13/2000
12:03 PM

FIGURE 18

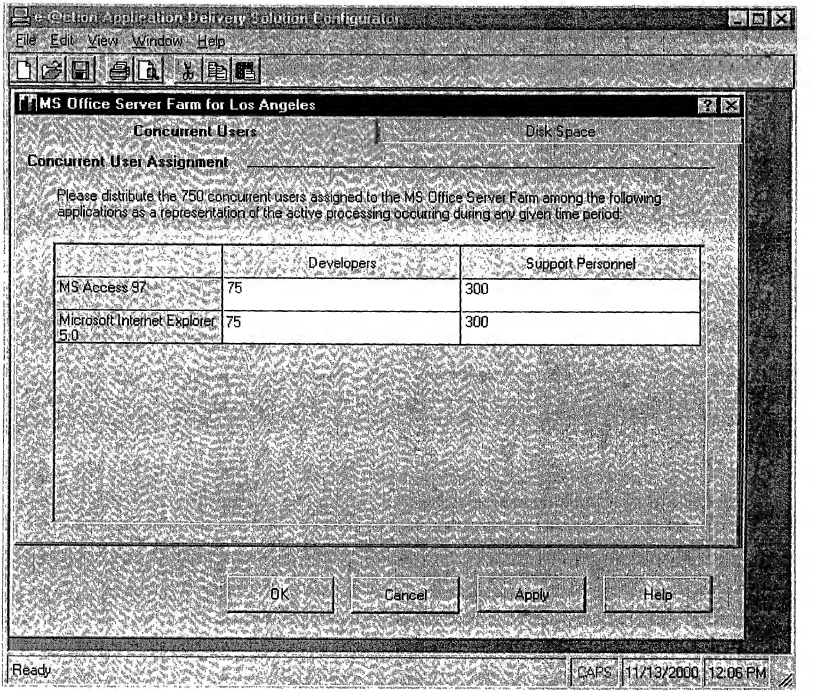

e-Action Application Delivery Solution Configuration
File Edit View Window Help
MS Office Server Farm for Los Angeles
Concurrent Users
Disk Space
Concurrent User Assignment
Please distribute the 750 concurrent users assigned to the MS Office Server Farm among the following applications as a representation of the active processing occurring during any given time period:
Developers
Support Personnel
MS Access 97
75
300
Microsoft Internet Explorer 5.0
75
300
OK
Cancel
Apply
Help
Ready
CAPS
11/13/2000
12:06 PM

FIGURE 19

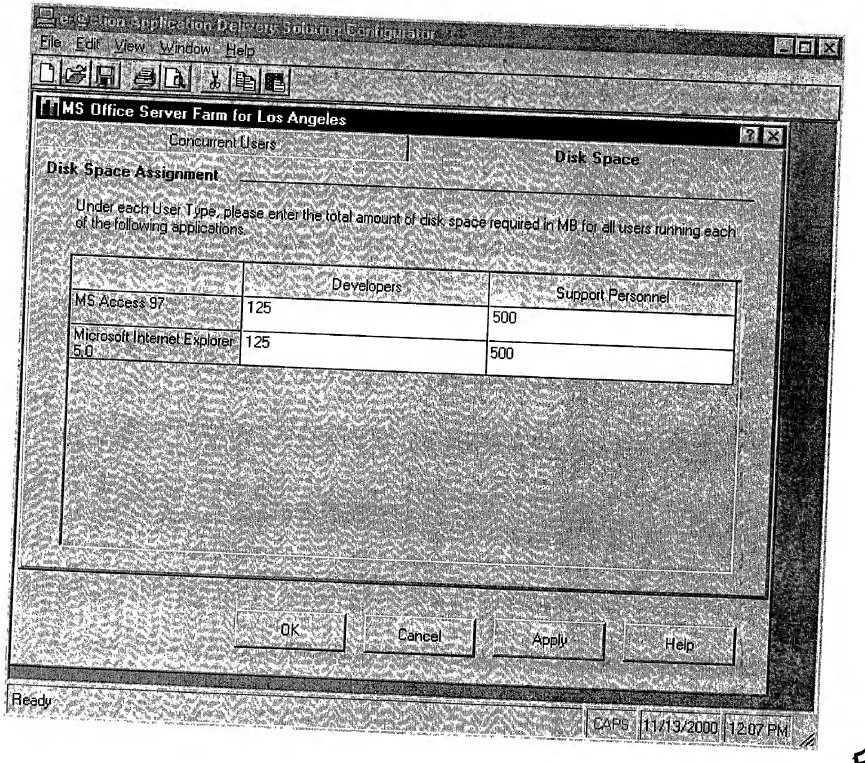

Application Delivery Solution Configurator
File Edit View Window Help
MS Office Server Farm for Los Angeles
Concurrent Users
Disk Space
Disk Space Assignment
Under each User Type, please enter the total amount of disk space required in MB for all users running each of the following applications.
Developers
Support Personnel
MS Access 97
125
500
Microsoft Internet Explorer 5.0
125
500
OK
Cancel
Apply
Help
Ready
CAPS
11/13/2000
12:07 PM

FIGURE 20

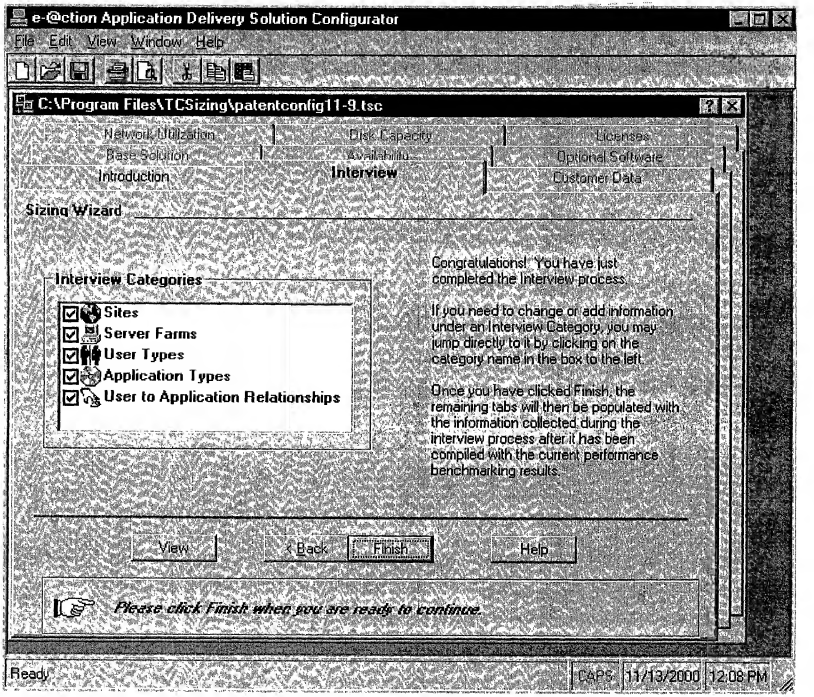

e-@ction Application Delivery Solution Configurator
File Edit View Window Help
C:\Program Files\TCSizing\patentconfig11-9.tsc
Network Utilization
Disk Capacity
Licenses
Base Solution
Availability
Optional Software
Introduction
Interview
Customer Data
Sizing Wizard
Interview Categories
Sites
Server Farms
User Types
Application Types
User to Application Relationships
Congratulations! You have just completed the Interview process.
If you need to change or add information under an Interview Category, you may jump directly to it by clicking on the category name in the box to the left.
Once you have clicked Finish, the remaining tabs will then be populated with the information collected during the interview process after it has been compiled with the current performance benchmarking results.
View
< Back
Finish
Help
Please click Finish when you are ready to continue.
Ready
CAPS
11/13/2000
12:08 PM

FIGURE 21

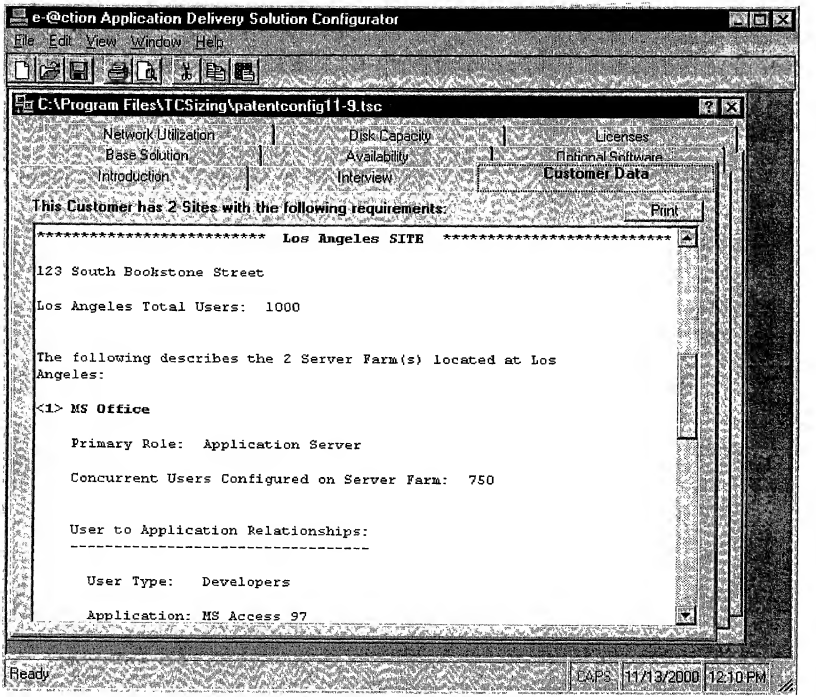

e-@ction Application Delivery Solution Configurator
File Edit View Window Help
C:\Program Files\TCSizing\patentconfig11-9.tsc
Network Utilization
Disk Capacity
Licenses
Base Solution
Availability
Optional Software
Introduction
Interview
Customer Data
This Customer has 2 Sites with the following requirements:
Print
********** Los Angeles SITE **********
123 South Bookstone Street
Los Angeles Total Users: 1000
The following describes the 2 Server Farm(s) located at Los Angeles:
<1> MS Office
Primary Role: Application Server
Concurrent Users Configured on Server Farm: 750
User to Application Relationships:
User Type: Developers
Application: MS Access 97
Ready
CAPS
11/13/2000 12:10 PM

FIGURE 22

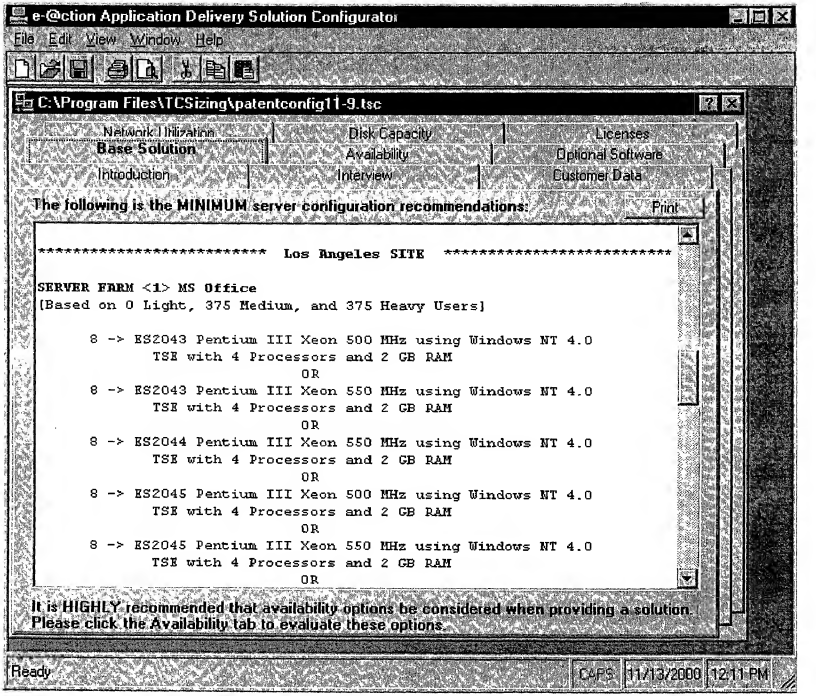

e-@ction Application Delivery Solution Configurator
File Edit View Window Help
C:\Program Files\TCSizing\patentconfig11-9.tsc
Network Utilization
Disk Capacity
Licenses
Base Solution
Availability
Optional Software
Introduction
Interview
Customer Data
The following is the MINIMUM server configuration recommendations:
Print
********** Los Angeles SITE **********
SERVER FARM <1> MS Office
[Based on 0 Light, 375 Medium, and 375 Heavy Users]
8 -> ES2043 Pentium III Xeon 500 MHz using Windows NT 4.0
TSE with 4 Processors and 2 GB RAM
OR
8 -> ES2043 Pentium III Xeon 550 MHz using Windows NT 4.0
TSE with 4 Processors and 2 GB RAM
OR
8 -> ES2044 Pentium III Xeon 550 MHz using Windows NT 4.0
TSE with 4 Processors and 2 GB RAM
OR
8 -> ES2045 Pentium III Xeon 500 MHz using Windows NT 4.0
TSE with 4 Processors and 2 GB RAM
OR
8 -> ES2045 Pentium III Xeon 550 MHz using Windows NT 4.0
TSE with 4 Processors and 2 GB RAM
OR
It is HIGHLY recommended that availability options be considered when providing a solution.
Please click the Availability tab to evaluate these options.
Ready
CAPS
11/13/2000
12:11 PM

FIGURE 23

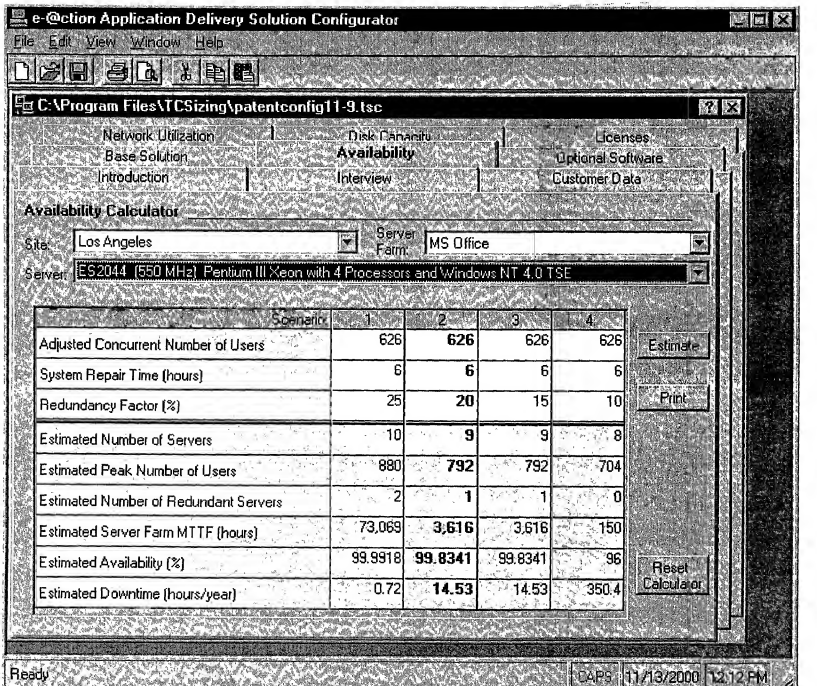

e-@ction Application Delivery Solution Configurator
File Edit View Window Help
C:\Program Files\TCSizing\patentconfig11-9.tsc
Network Utilization
Disk Scenario
Licenses
Base Solution
Availability
Optional Software
Introduction
Interview
Customer Data
Availability Calculator
Site: Los Angeles
Server Farm: MS Office
Server: ES2044 [550 MHz] Pentium III Xeon with 4 Processors and Windows NT 4.0 TSE
Scenario 1 2 3 4
Adjusted Concurrent Number of Users 626 626 626 626
System Repair Time (hours) 6 6 6 6
Redundancy Factor (%) 25 20 15 10
Estimated Number of Servers 10 9 9 8
Estimated Peak Number of Users 880 792 792 704
Estimated Number of Redundant Servers 2 1 1 0
Estimated Server Farm MTTF (hours) 73,069 3,616 3,616 150
Estimated Availability (%) 99.9918 99.8341 99.8341 96
Estimated Downtime (hours/year) 0.72 14.53 14.53 350.4
Estimate
Print
Reset Calculator
Ready
CAPS
11/13/2000
12:12 PM

FIGURE 24

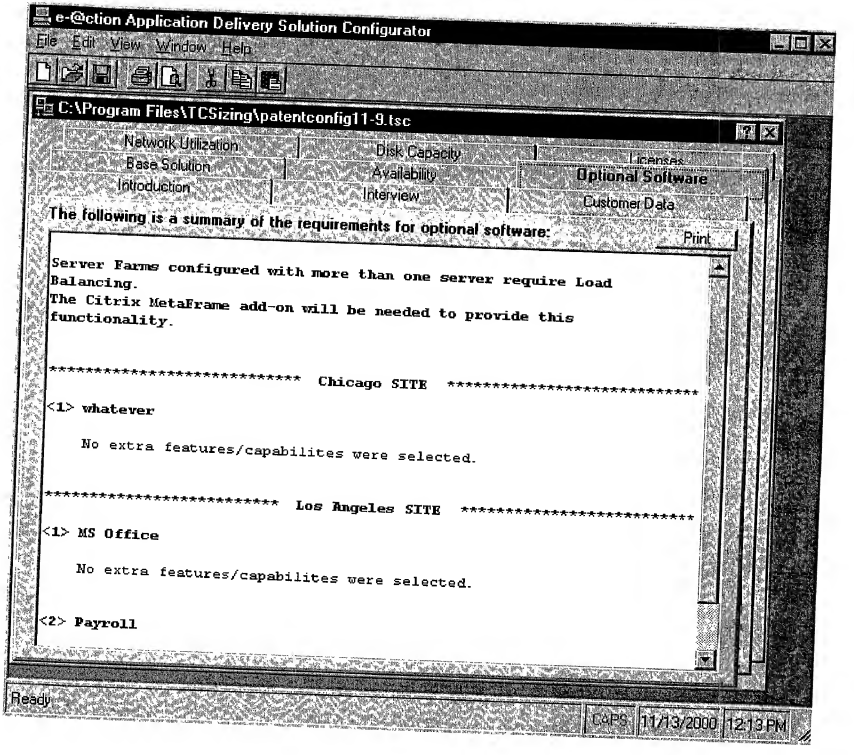

e-@ction Application Delivery Solution Configurator
File Edit View Window Help
C:\Program Files\TCSizing\patentconfig11-9.tsc
Network Utilization
Disk Capacity
Licenses
Base Solution
Availability
Optional Software
Introduction
Interview
Customer Data
The following is a summary of the requirements for optional software:
Print
Server Farms configured with more than one server require Load Balancing.
The Citrix MetaFrame add-on will be needed to provide this functionality.
********** Chicago SITE **********
<1> whatever
No extra features/capabilites were selected.
********** Los Angeles SITE **********
<1> MS Office
No extra features/capabilites were selected.
<2> Payroll
Ready
CAPS
11/13/2000
12:13 PM

FIGURE 25

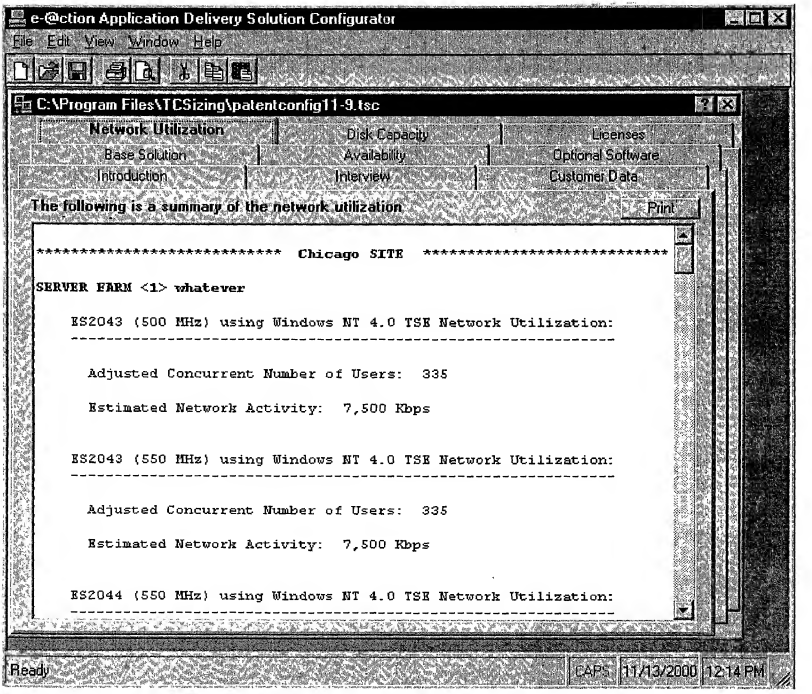

e-@ction Application Delivery Solution Configurator
File Edit View Window Help
C:\Program Files\TCSizing\patentconfig11-9.tsc
Network Utilization
Disk Capacity
Licenses
Base Solution
Availability
Optional Software
Introduction
Interview
Customer Data
The following is a summary of the network utilization.
Print
********** Chicago SITE **********
SERVER FARM <1> whatever
ES2043 (500 MHz) using Windows NT 4.0 TSE Network Utilization:
Adjusted Concurrent Number of Users: 335
Estimated Network Activity: 7,500 Kbps
ES2043 (550 MHz) using Windows NT 4.0 TSE Network Utilization:
Adjusted Concurrent Number of Users: 335
Estimated Network Activity: 7,500 Kbps
ES2044 (550 MHz) using Windows NT 4.0 TSE Network Utilization:
Ready
CAPS
11/13/2000
12:14 PM

FIGURE 26

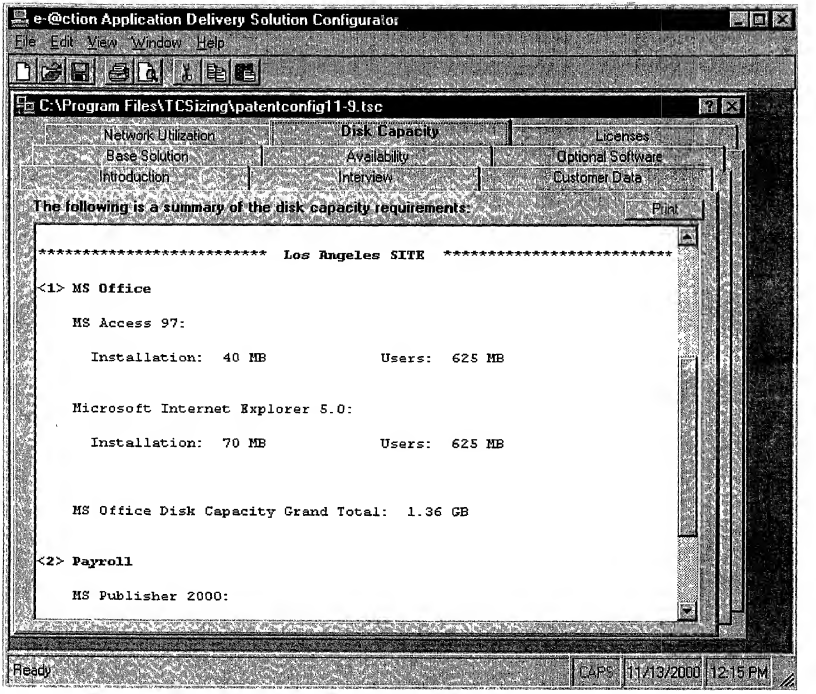

e-@ction Application Delivery Solution Configurator
File Edit View Window Help
C:\Program Files\TCSizing\patentconfig11-9.tsc
Network Utilization
Disk Capacity
Licenses
Base Solution
Availability
Optional Software
Introduction
Interview
Customer Data
The following is a summary of the disk capacity requirements:
Print
********** Los Angeles SITE **********
<1> MS Office
MS Access 97:
Installation: 40 MB Users: 625 MB
Microsoft Internet Explorer 5.0:
Installation: 70 MB Users: 625 MB
MS Office Disk Capacity Grand Total: 1.36 GB
<2> Payroll
MS Publisher 2000:
Ready
CAPS
11/13/2000
12:15 PM

FIGURE 27

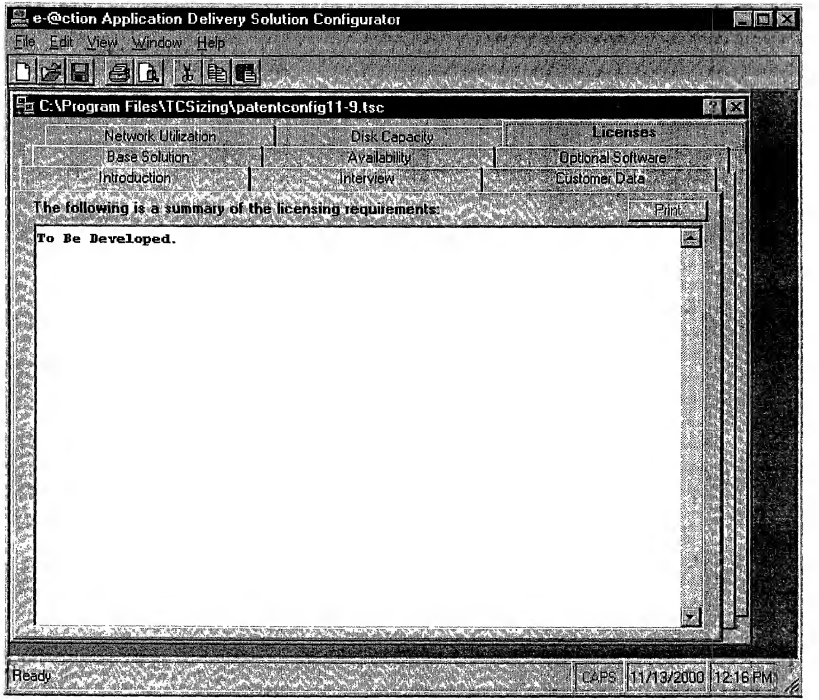

e-@ction Application Delivery Solution Configurator
File Edit View Window Help
C:\Program Files\TCSizing\patentconfig11-9.tsc
Network Utilization
Disk Capacity
Licenses
Base Solution
Availability
Optional Software
Introduction
Interview
Customer Data
The following is a summary of the licensing requirements:
Print
To Be Developed.
Ready
CAPS
11/13/2000
12:16 PM

FIGURE 28